

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32788

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : F25J 3/02, 3/00 US CL : 62/657, 628, 625, 621 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 62/657, 628, 625, 621		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) None		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2,771,149 A (MILLER et al) 20 November 1956 (20.11.1956), See entire document.	
A	US 6,112,549 A (YAO et al) 05 September 2000 (05.09.2000), See entire document.	
A	US 3,793,157 A (HOBBS et al) 19 February 1974 (19.02.1974), See entire document.	
A	US 2,603,310 A (GILMORE) 15 July 1952 (15.07.1952), See entire document.	
A	US 3,421,610 A (MARSHALL) 14 January 1969 (14.01.1969), See entire document.	
A	US 4,102,659 A (MARTIN) 25 July 1978 (25.07.1978), See entire document.	
A	US 5,953,935 A (SORENSEN) 21 September 1999 (21.09.1999), See entire document.	
A	US 5,771,712 A (CAMPBELL et al) 30 June 1998 (30.06.1998), See entire document.	
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 05 January 2005 (05.01.2005)	Date of mailing of the international search report <div style="font-size: 1.2em; font-weight: bold;">14 FEB 2005</div>	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer <i>Sharon M. Greene for</i> William C Doerrler Telephone No. (571) 272-3750	